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|---|--|--|---|----------|------|
| Product designation | | | Time relay | | |
| Product type designation | | | L48M | | |
| General characteristics | | | | | |
| Description | | | Multifunction time relay, multiscale and multivoltage | | |
| Function | | | Multifunction | | |
| Supply circuit | | | | | |
| Rated auxiliary supply voltage Us | | | 24...240VAC/DC | | |
| Rated auxiliary supply voltage Us AC | | | min | VAC | 24 |
| | | | Max | VAC | 240 |
| DC | | | min | VDC | 24 |
| | | | Max | VDC | 240 |
| Rated frequency | | | Hz | 50/60 | |
| Operating voltage range | | | 0.85...1.1 Us | | |
| Maximum power consumption / dissipation | | | W | 6VA | |
| Immunity time for microbreakings | | | ms | ≤40 | |
| Timing circuit | | | | | |
| Time setting range | | | 0.05min...10h | | |
| Setting accuracy | | | % | ±5 | |
| Repeat accuracy | | | % | ±0.5 | |
| Influence of voltage variation | | | % | ±0.5 | |
| Resetting time | | | During timing | | |
| | | | Elapsed time | ms | ≥100 |
| | | | ms | ≥65 | |
| Relay outputs | | | | | |
| Number of relays | | | Nr. | 2 | |
| Contact arrangement | | | 2 delayed C/O | | |
| Maximum switching voltage | | | VAC | 250 | |
| IEC Conventional free air thermal current Ith | | | A | 5 | |
| UL/CSA and IEC/EN 60947-5-1 designation | | | B300 | | |
| Insulation (input-output) | | | | | |
| Rated insulation voltage Ui | | | V | 250 | |
| Power frequency withstand voltage | | | kV | 2 | |
| Operations | | | | | |
| Mechanical life | | | cycles | 30000000 | |
| Electrical life (with rated load) | | | cycles | 100000 | |
| Ambient conditions | | | | | |
| Temperature | | | | | |
| Operating temperature | | | min | °C | -10 |
| | | | max | °C | +60 |

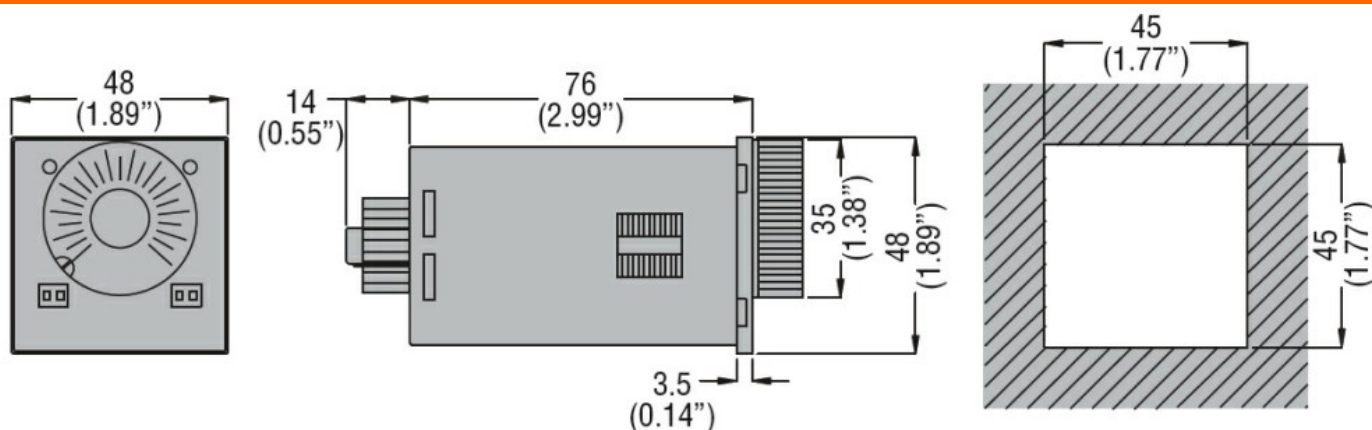
Storage temperature

| | | |
|-----|----|-----|
| min | °C | -30 |
| max | °C | +80 |

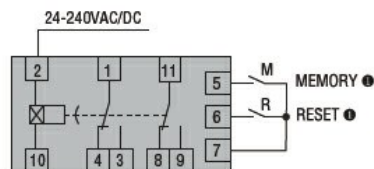
Housing

| | | |
|------------------------|----|------------------------------------|
| Material | | Self-extinguishing polyamide |
| Mounting | | Plug-in housing with 11-pin socket |
| Degree of protection | | IP40 on front, IP20 terminals |
| Dimensions (W x H x D) | mm | 48 x 48 x 90 |
| Weight | g | 135 |

Dimensions



Wiring diagrams


$$T \text{ (preset time)} = T_1 + T_2$$

① Contacts "M" and "R" are to be volt free (dry).

Certifications and compliance

Compliance

CSA C22.2 n°14
IEC/EN 61812-1
UL508

Certificates

$$\frac{\text{cURus}}{\text{EAC}}$$

ETIM classification

| | |
|----------|---------------------------|
| ETIM 8.0 | EC001439 - Timer relay |
|----------|---------------------------|